



DEV/OPS

Information Team

Presentation to Dev/Ops Partnership

February 9, 2005



Dev/Ops Information Team Goal

To identify critical data available
that can be transformed into
information to be used to improve
the quality of plans to Construction



Team Members

- ◆ Julio Alvarado
- ◆ Mary Viparina
- ◆ John Lawson
- ◆ Bahram Dariush
- ◆ Carrie Satterlee
- ◆ Mike Manthey
- ◆ Mike Zimnick
- ◆ Paul Hurst
- ◆ Carla Carter



Taking Responsibility for Value-Added Information

- ◆ Team reviewed SATS and a large number of information sources available
- ◆ Team developed draft samples of reports deemed valuable
- ◆ Team zeroed in on key recommendations to improve critical information flow



Critical Information

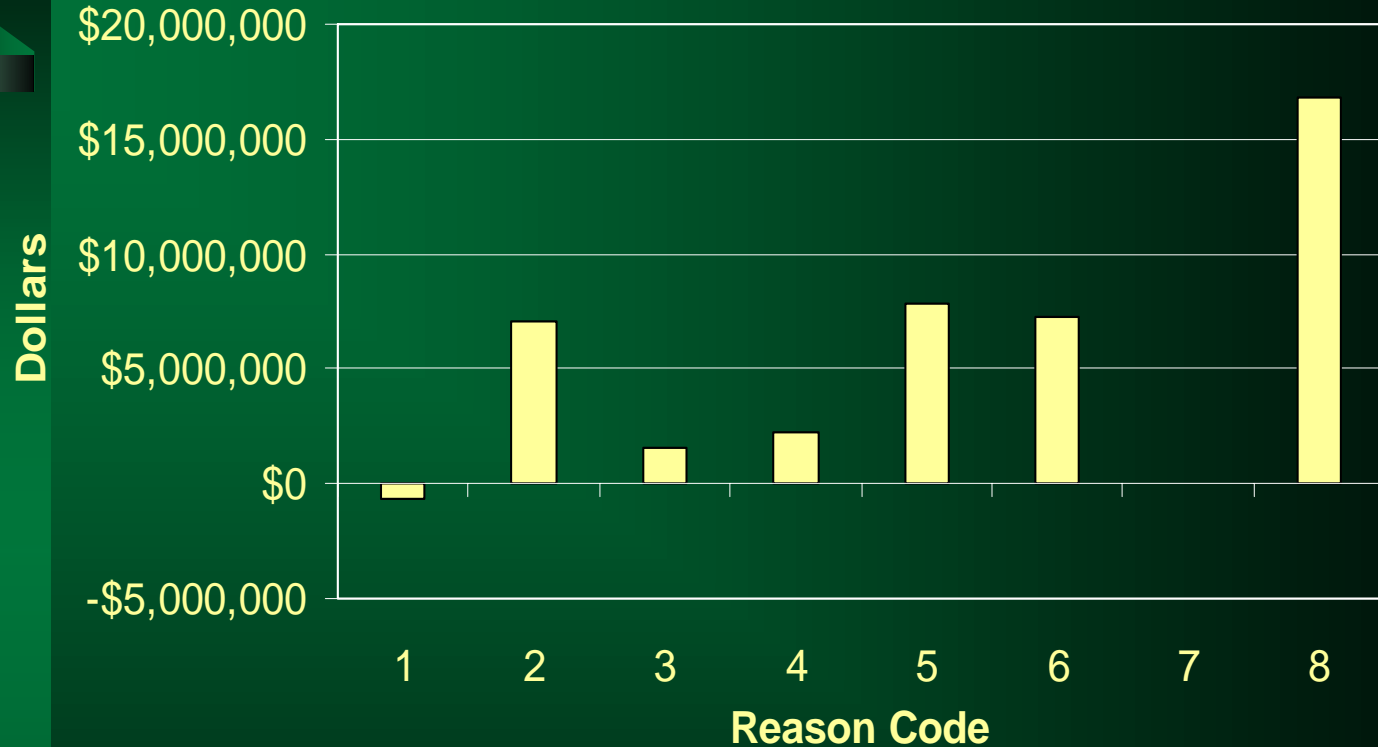
- ◆ SATS (Supplemental Agreement) Info
 - Errors & Omissions
 - Changed Condition Types
 - Changed Condition Descriptions
 - Single Project Change Order Info

- ◆ Other Critical Info
 - FAST
 - Inspection info
 - VE trends
 - Project Reference info
 - Partnering Close-Out and Issue Resolution info
 - Plan, Spec, Review and Comment sheets
 - 95% review info
 - Back charge info
 - APSR schedule info



Cost by Supplemental Agreement Reason Code

1/1/05 - 12/1/05



Reason Code	SA Reason	Total	Number of SA's
1	Value Engineering	-\$628,499	16
2	Work Out of Scope (ADOT)	\$7,070,350	162
3	Work Out of Scope (Other Jurisdiction)	\$1,529,869	21
4	Quantity Omissions	\$2,209,228	55
5	Plans, Revisions and Oversights	\$7,870,080	392
6	Changed Condition	\$7,217,405	141
7	Penalties or Bonuses	\$19,541	9
8	Other	\$16,829,704	301
Grand Total		\$42,117,678	1097



#1. Errors and Omissions Report

- ◆ Standard Quarterly Report
- ◆ Report of Change Orders through Post Design
- ◆ Shows Designer, TRACS number, Bid Amount, # of Change Orders, Dollar Value of Change Orders, % of Bid, % Complete and Original vs. Actual Budget
- ◆ Can show prime and subcontractor performance
- ◆ Assists in consultant selection

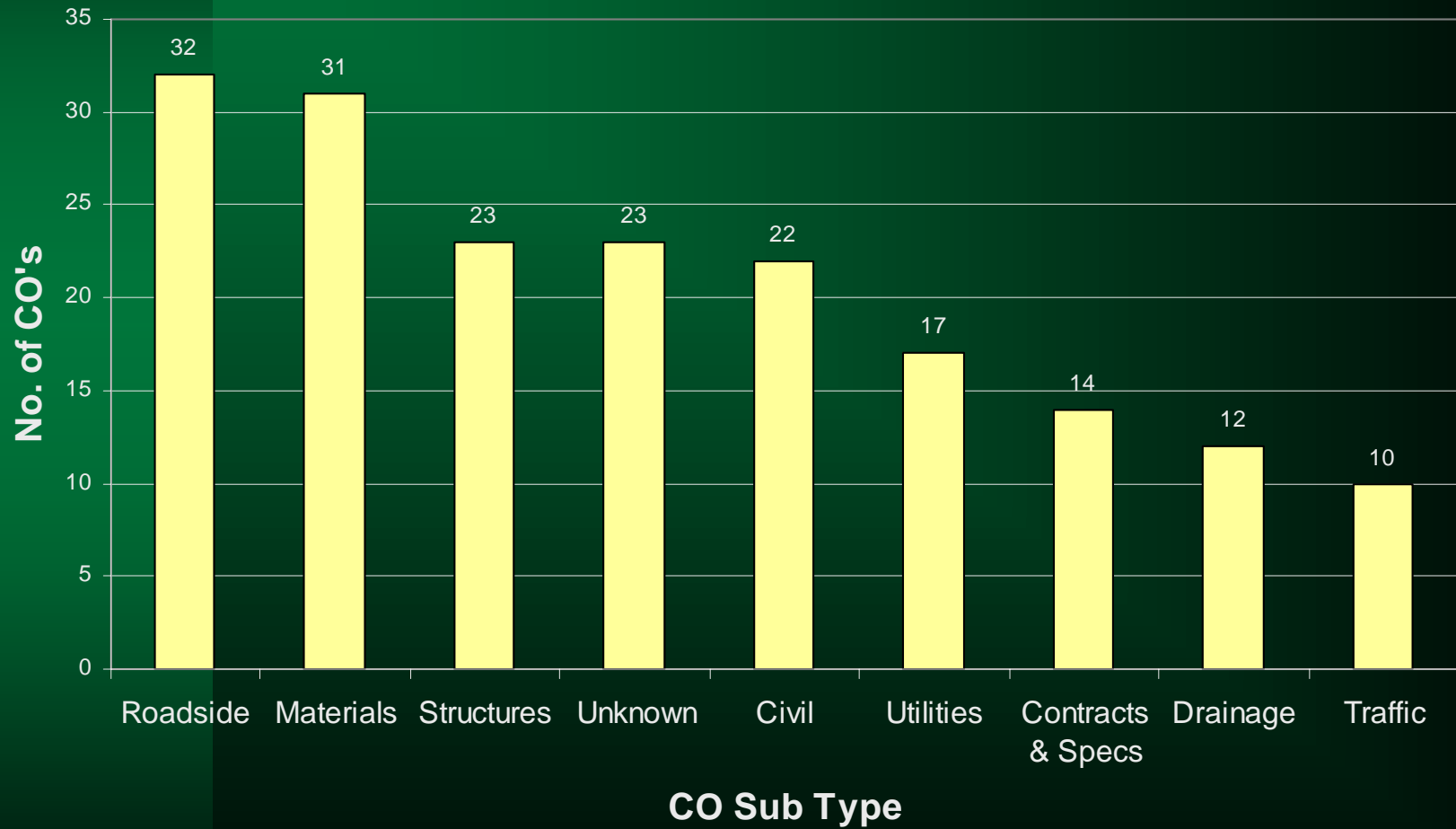


#2. Changed Conditions by Type or Cost

- ◆ Standard Quarterly Report
- ◆ Core categories: Roadside, Materials, Structures, Civil, Utilities, Contracts & Specs, Drainage and Traffic
- ◆ AD Hoc Reporting Capability for specific needs
- ◆ Allows for analysis of trends and corrective action
- ◆ Key learning tool for PMs and REs to determine root causes



Changed Condition CO's 01/01/05 to 12/01/05





#3. Single Project Change Order Report

- As requested by Project Manager
- Shows reason codes, actual reason, dollar amount of change
- Used as a learning tool to understand history and prevent change orders in future

02/08/2006 10:48 am

Arizona Department of Transportation

Log

Resident Engineer: Robert Winrow Jr.

IM 010-B(006)A / H612801C

Summary

Org: 7746 Phoenix

Contract Amount	\$1,674,674.00	Total Change Orders	\$20,000.00
5% Contingency	\$83,733.70	Total Force Accounts	\$0.00
Additional Requested		Total Letter Agreements	\$1,732.03
Total Available		Total SA Adjustment	\$0.00
Remaining Available	\$0.00	TOTAL	\$21,732.03

Reason Codes:

1. Value Engineering	\$0.00	0 %	5. Plans Revisions / Oversights	\$0.00	0 %
2. Work out of Scope (ADOT)	\$0.00	0 %	6. Changed Condition	\$0.00	0 %
3. Work out of Scope (Other Jur)	\$0.00	0 %	7. Penalties - Bonuses	\$0.00	0 %
4. Quantity Omissions	\$20,000.00	1.18 %	8. Other	\$1,732.03	0.1 %

		Emerg	RE	Contr	Sent	Dist						%	
		Auth	App	App	To	App	Return						Of Orig
Number	Cat	Date	Date	Date	Dist	Date	Date	Amount	SA Adjustment	Description	Amount	Contract	
C 1	4	02/22/05	03/15/05	03/10/05	03/15/05	03/18/05	09/23/05	\$20,000.00	\$0.00	Civilian Flaggers	\$20,000.00	1.19 %	
L 1	8	03/17/05	05/03/05	03/18/05	00/00/00	00/00/00	00/00/00	\$-830.00	\$0.00	Partnering Workshop	\$19,370.00	1.16 %	
L 2	8	03/17/05	10/04/05	10/05/05	00/00/00	00/00/00	00/00/00	\$2,362.03	\$0.00	Conduit repair work on Miller Rd.	\$21,732.03	1.3 %	



#4. Create Website for Broad Information Access

- ◆ Important information is available but not broadly available
- ◆ Inspection, VE, Project Reference, Partnering, Plans - Specs - Review and Comment sheets, 95% reviews, Back Charge info would be some examples
- ◆ Support by required, self-paced web-based training
- ◆ Locate on the G Drive or on the Intranet somewhere
- ◆ Would need resources to design and monitor



Self-paced, Web training (#4 -cont'd)

- ◆ How to use the three components of FAST
 - CPE
 - Contract Card
 - SATS
- ◆ How to look up the SATS info
 - What is available
 - What does the information mean
- ◆ How to look up budget info
- ◆ How to order more detailed, 'Ad Hoc' reports



#5. Data Validity

- Important to ensure consensus on reason codes
- Joint process between the Design and Construction PM
- Data for the 2005-2006 fiscal year should be reviewed and improved for validity
- Data would then be the baseline
- Will take resources and training



#6. Training in Supplemental Agreements

- ◆ Course currently available; class scheduled for May 2006
- ◆ Course should be enhanced to include:
 - Definitions of categories/reasons
 - Show how to place change properly into SATS
 - Show how to access various reports
 - Describe the role of Design and Construction in validating SATS info